UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 7
25 FUNSTON ROAD
KANSAS CITY, KANSAS 66115

Date: AUG 20 [illegible]

MEMORANDUM

SUBJECT: Data Transmittal for Activity #: CS46R,
Site Desciption: Missouri Electric Works

FROM: Andrea Jirka
Chief, Laboratory Branch, ENSV

TO: Robert Morby
Chief, Superfund Branch, WSTM

ATTN: P. France-Isetts

Attached is the data transmittal for the above referenced site. This should be considered a ____ Partial or X Complete data transmittal (completes transmittal of _____). If you have have any questions or comments, please contact Dee Simmons at 551-5129.

Attachments

cc: Data Files
Sharon Martin, E&E/FIT

Site: MEW
ID #: MOD980678582
Break: 6.3 EPA
Other: _____

NOTE: Please see Mary Gerken, SPFD-WSTM, if you want an electronic copy of the data.

#158428

DRAFT

FIELD SHEET

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

FY: 91 ACTNO: CS46R SAMNO: 001 QCC: _ MEDIA: WATER PL: S P F D

ACTIVITY DES: MO. ELECTRIC WORKS REF LATITUDE: __ __ __
LOCATION: CAPE GIRARDEAU MO PROJECT NUM: A33 PT: LONGITUDE: __ __ __

SAMPLE DES: _____
LOCATION: CAPE GIRARDEAU MO DATE TIME FROM REF PT
CASE/BATCH/SMO: ____/__/____ LAB: ___ BEG: 06/4/91 10:00 EAST: ____
STORET/SAROAD NO: _____ END: 06/4/91 15:00 NORTH: ____
DOWN: ____

ANALYSIS REQUESTED:

	CONTAINER	PRESERVATIVE	MGP	NAME
✓	2 VOA VIALS	ICED	UV	VOLATILES
✓	GLASS	ICED	US	SEMIVOLATILES
✓	GLASS	ICED	U24	PCB - G. BEEMONT

COMMENTS:

Sample depth 210'

SAMPLE COLLECTED BY : Todd Tromble

MEW Site File
Break6_000704

Mr 6/6/91

CHAIN OF CUSTODY RECORD
ENVIRONMENTAL PROTECTION AGENCY REGION VII

ACTIVITY LEADER(Print)	NAME OF SURVEY OR ACTIVITY	DATE OF COLLECTION (DAY MONTH YEAR)	SHEET
Mc. Paketta Frances Tritts / Terry Hagen	MEW	4 6 91	1 of 1

CONTENTS OF SHIPMENT EPA SPLIT Sample

SAMPLE NUMBER	CUBITAINER	80 oz amber BOTTLE	BOTTLE	BOTTLE	VOA SET (2 VIALS EA)	water	soil	sediment	dust	other	RECEIVING LABORATORY REMARKS OTHER INFORMATION (condition of samples upon receipt other sample numbers etc.)
	NUMBERS OF CONTAINERS PER SAMPLE NUMBER										
1-CS46R001	~~1~~	2	~~1~~ T.T		1	X					

MEW Site File
Break6_000705

DESCRIPTION OF SHIPMENT	MODE OF SHIPMENT
____ PIECE(S) CONSISTING OF ____ BOX(ES)	____ COMMERCIAL CARRIER: ____
1 ICE CHEST(S); OTHER ____	____ COURIER
	X SAMPLER CONVEYED ____ (SHIPPING DOCUMENT NUMBER)

PERSONNEL CUSTODY RECORD

RELINQUISHED BY (SAMPLER)	DATE	TIME	RECEIVED BY	REASON FOR CHANGE OF CUSTODY
Todd Tomito; [X] SEALED UNSEALED [ ]	6-6-91	1500	[signature] 6/6/91; [X] SEALED UNSEALED [ ]	Analysis
RELINQUISHED BY; [ ] SEALED UNSEALED [ ]	DATE	TIME	RECEIVED BY; [ ] SEALED UNSEALED [ ]	REASON FOR CHANGE OF CUSTODY
RELINQUISHED BY; [ ] SEALED UNSEALED [ ]	DATE	TIME	RECEIVED BY; [ ] SEALED UNSEALED [ ]	REASON FOR CHANGE OF CUSTODY

7-EPA-9262(Revised 5/85)

ENVIRONMENTAL SERVICES ASSISTANCE TEAM -- ZONE II

ICF Technology Incorporated

ManTech Environmental Technology, Inc.

The Bionetics Corp.

ESAT Region VII
ManTech Env. Tech., Inc.
25 Funston Road
Kansas City, KS 66115
(913) 551-5000

TO: Barry Evans, Data Review Task Monitor/ENSV
THRU: Harold Brown, Ph.D., ESAT Contract Manager/ENSV

FROM: Rebecca K. Estep, ESAT Data Reviewer/ManTech RKE
THRU: Ronald Ross, Manager/ESAT/ManTech

DATE: July 29, 1991
SUBJECT: Review of organic data for Missouri Electric Works.

TID#:	07-9103-535
ASSIGNMENT#:	873
ICF ACCT#:	302-26-535-02
ManTech S.O.#:	1073-535
ESAT Document#:	ESAT-VII-535-0144

These data were reviewed according to the "Laboratory Data Validation Functional Guidelines for Evaluating Organic Analyses," February 1, 1988 revision and the "Laboratory Data Validation Functional Guidelines for Evaluating Pesticides and PCBs".

The following comments and attached data sheets are a result of ManTech Environmental Technology, Inc.'s review of the above mentioned data from the contract laboratory.

CASE NO.:	16601	LABORATORY:	SWOK
CONTRACT NO.:	68-D9-0025	METHOD NO:	CS0288A
SITE:	Missouri Electric Works	EPA ACTIVITY:	CS46R
REVIEWER:	Rebecca K. Estep	MATRIX:	Water

Samples for Volatile, Semivolatile, and Pesticide/PCB Analysis

SMO SAMPLE NO.	EPA SAMPLE NO.	SMO SAMPLE NO.	EPA SAMPLE NO.
GL132	CS46R001	GL133	CS46R901P

GENERAL

Case 16601 contained 2 environmental and 21 QC low level water samples for volatile, base/neutral and acid, and pesticide/PCB analyses. This package includes no field blanks, no field duplicate, and one performance evaluation sample. There was a sample mix-up in the laboratory for sample CS46R901P for pesticide/PCB analyses, thus, this sample was reextracted, reanalyzed, and resubmitted with this data package. Data review was performed at level 2.

1. TECHNICAL HOLDING TIMES and PRESERVATION

A. Technical holding times and required preservation are outside quality control limit requirements for the aromatic compounds by one day for volatile analyses. No data were qualified by the holding time preservation rules.

B. Technical holding times and required preservation are within quality control limit requirements for the base/neutral and acid analyses. All samples were within holding time specifications from extraction to analysis for base/neutral and acids.

C. Technical holding times and required preservation are outside quality control limit requirements by 27 days on the reextracted/reanalyzed samples CS46R901PRE and CS46R901PREDL for pesticide/PCB analyses. All compounds detected were "J" coded in sample CS46R901P for pesticide/PCB analyses due to the holding time preservation rules. All samples were within holding time specifications from extraction to analysis for pesticide/PCB's.

2. GC/MS TUNING

A. All volatile and base/neutral and acid GC/MS tunings and mass calibrations were within quality control limit requirements for bromofluorobenzene (BFB) and decafluorotriphenylphosphine (DFTPP), respectively.

3. INITIAL AND CONTINUING CALIBRATIONS

A. All average relative response factors and relative response factors on the initial and continuing calibrations, respectively, for volatile analyses were within quality control limit requirements.

B. Bromomethane was outside quality control limit requirements for percent relative standard deviation (%RSD) (greater than 30%) on the volatile initial calibration. No data were qualified due to the initial calibration rules.

C. Trichloroethene, trans-1,3-dichloropropene, and 2-hexanone were outside quality control limit requirements for percent difference (%D) (greater than 25%) on the volatile continuing calibrations. Trichloroethene in sample CS46R901W was "J" coded due to the volatile continuing calibration rules.

D. All average relative response factors on the initial calibration for base/neutral and acid analyses were within quality control limit requirements.

E. Benzo(k)fluoranthene was outside quality control limit requirements for percent relative standard deviation (%RSD) (greater than 30%) on the base/neutral and acid initial calibration. No data were qualified due to the initial calibration rules.

F. 3-nitroaniline and 3,3'-dichlorobenzidine were outside quality control limit requirements for relative response factors on the base/neutral and acid continuing calibration. These compounds were invalidated in all samples for base/neutral and acid analyses.

G. Several compounds were outside quality control limit requirements for percent difference (%D) (greater than 25%) on the base/neutral and acid continuing calibration, however, since these compounds were all non-detect in all associated samples, no data were qualified due to the continuing calibration rules.

4. PESTICIDE CALIBRATION

A. All samples were within quality control limit requirements for percent difference on the continuing calibrations, analytical sequence, and linearity on the initial calibrations quantitation columns.

B. 4,4'-DDT was outside quality control limit requirements for linearity percent relative standard deviation (%RSD) (greater than 10%) on the pesticide initial calibration confirmation column for the reanalyzed samples. No data were qualified due to the calibration rules.

5. PESTICIDE INSTRUMENT PERFORMANCE

A. All samples were within quality control limit requirements for retention time windows, DDT retention time, and DDT/endrin degradation check.

B. The percent difference on retention time check could not be evaluated for CS46R901PREDL on both the quantitation and confirmation columns because dibutylchlorendate was diluted out. No data were qualified due to the retention time check.

6. INTERNAL STANDARD RESPONSE

A. The internal standard response areas were within a factor of 2 between the samples and their associated continuing calibration response areas for volatile and base/neutral and acid analyses.

7. BLANKS

A. Three method blanks were analyzed for volatile analyses with methylene chloride and chloroform detected above the instrument detection limit (IDL) but less than the contract required quantitation limit (CRQL). No data were qualified due to the blank rules.

B. One method blank for base/neutral and acid analyses and two method blanks for pesticides/PCB's were analyzed with no compounds detected.

8. SURROGATE RECOVERY

A. All surrogates were within quality control limit requirements for percent recovery for the volatile fraction.

B. All surrogates were within quality control limit requirements for percent recovery for the base/neutral and acid fractions except for phenol-d5 (less than 10% recovery) in samples CS46R001 and CS46R001S, 2-fluorophenol (less than 10% recovery) in samples CS46R001, and CS46R001S, 2,4,6-tribromophenol (less than 10% recovery) in sample CS46R001, and 2-fluorophenol in sample CS46R001W. No data were qualified for sample CS46R001W since only one acid surrogate was outside quality control limit requirements. All acid compounds in samples CS46R001 and CS46R001S were invalidated except for phenol, 2-chlorophenol, 4-chloro-3-methylphenol, and 4-nitrophenol in sample CS46R001S which were "J" coded due to the surrogate rules.

C. All surrogates were within quality control limit requirements for percent recovery for the pesticide/PCB fraction except for dibutylchlorendate in sample CS46R001. Per the case narrative, the reason for the high percent recovery for dibutylchlorendate was due to an overlap in peaks with aroclor 1260. In sample CS46R901PREDL the surrogate was diluted out. Aroclor 1260 in sample CS46R001 was "J" coded due to the surrogate rules.

9. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A. A matrix spike/matrix spike duplicate was analyzed for volatiles with percent recovery and relative percent difference within quality control limit requirements.

B. A matrix spike/matrix spike duplicate was analyzed for base/neutral and acids with percent recovery low for 2-chlorophenol and high for 4-nitrophenol in samples CS46R001S and CS46R001W. The relative percent difference was outside quality control limit requirements for phenol, 2-chlorophenol, acenaphthene, and pyrene. No data were qualified due to the matrix spike/matrix spike duplicate rules.

C. The percent recoveries can not be determined from the pesticide/PCB data sheets for the matrix spike and matrix spike duplicate due to the fact that the sample volume and dilution on these samples resulted in the spiking concentrations detected being below the contract required quantitation limit (CRQL). Thus, these results were raised to the CRQL and "U" coded.

D. A matrix spike/matrix spike duplicate was analyzed for pesticide/PCB's with percent recovery low for aldrin in samples CS46R901S and CS46R901W. The relative percent difference was outside quality control limit requirements for heptachlor. No data were qualified due to the matrix spike/matrix spike duplicate rules.

10. PERFORMANCE EVALUATION SAMPLE

A. One performance evaluation sample was submitted to the laboratory for volatile analysis associated with this case and SDG number with all audit compounds detected.

B. One performance evaluation sample was submitted to the laboratory for base/neutral and acid analysis associated with this case and SDG number with the only audit compounds detected being phenol, 4-chloro-3-methylphenol, and 4,6-dinitro-2-methylphenol. 4-chloro-3-methylphenol and 4,6-dinitro-2-methylphenol were detected above the instrument detection limit (IDL) but less than the contract required quantitation limit (CRQL), thus, these compounds were raised to the CRQL and "U" coded. 1,2,4-trichlorobenzene and bis(2-ethylhexyl)phthalate were detected additionally.

C. One performance evaluation sample was submitted to the laboratory for pesticide/PCB analysis associated with this case and SDG number with all audit compounds detected. Endrin ketone was detected additionally.

11. COMPOUND IDENTIFICATION and QUANTITATION

A. Alpha-BHC, gamma-BHC (lindane), heptachlor, heptachlor epoxide, dieldrin, endrin, and 4,4'-DDD in sample CS46R901PRE for pesticide/PCB analysis were detected above the calibration range, thus the concentrations reported for sample CS46R901P were from the diluted sample CS46R901PREDL.

B. Several compounds in several samples for all fractions were detected above the instrument detection limit (IDL) but less than the contract required quantitation limit (CRQL). These compounds were raised to the CRQL and "U" coded.

12. SUMMARY

A. All compounds detected were "J" coded in sample CS46R901P for pesticide/PCB analyses due to the holding time preservation rules.

B. Trichloroethene in sample CS46R901W was "J" coded due to the volatile continuing calibration rules.

C. 3-nitroaniline and 3,3'-dichlorobenzidine were invalidated in all samples for base/neutral and acid analyses due to the continuing calibration rules.

D. All acid compounds in samples CS46R001 and CS46R001S were invalidated except for phenol, 2-chlorophenol, 4-chloro-3-methylphenol, and 4-nitrophenol in sample CS46R001S which were "J" coded due to the surrogate rules for base/neutral and acid analyses.

E. Aroclor 1260 in sample CS46R001 was "J" coded due to the surrogate rules for pesticide/PCB analyses.

F. The percent recoveries can not be determined from the pesticide/PCB data sheets for the matrix spike and matrix spike duplicate due to the fact that the sample volume and dilution on these samples resulted in the spiking concentrations detected being below the contract required quantitation limit (CRQL). Thus, these results were raised to the CRQL and "U" coded.

G. Alpha-BHC, gamma-BHC (lindane), heptachlor, heptachlor epoxide, dieldrin, endrin, and 4,4'-DDD in sample CS46R901PRE for pesticide/PCB analysis were detected above the calibration range, thus the concentrations reported for sample CS46R901P were from the diluted sample CS46R901PREDL.

H. Several compounds in several samples for all fractions were detected above the instrument detection limit (IDL) but less than the contract required quantitation limit (CRQL). These compounds were raised to the CRQL and "U" coded.

I. This data package generally meets the requirements for precision, accuracy, and completeness as described in SOW for Organic Analysis dated February 1988, with the exceptions noted above.

MEW Site File
Break6_000712

ANALYSIS REQUEST REPORT

VALIDATED DATA

FOR ACTIVITY: CS46R

S P F D

08/20/91 16:31:41

ALL REAL SAMPLES AND FIELD Q.C.

* FINAL REPORT

FY: 91 ACTIVITY: CS46R DESCRIPTION: MO. ELECTRIC WORKS LOCATION: CAPE GIRARDEAU MISSOURI

STATUS: ACTIVE TYPE: SAMPLING - CONTRACT LAB ANALYSIS PROJECT: A33

LABO DUE DATE IS 8/ 5/91. REPORT DUE DATE IS 8/18/91.

INSPECTION DATE: 6/ 4/91 ALL SAMPLES RECEIVED DATE: 06/06/91

ALL DATA APPROVED BY LABO DATE: 06/20/91 FINAL REPORT TRANSMITTED DATE: 06/20/91

EXPECTED LABO TURNAROUND TIME IS 60 DAYS EXPECTED REPORT TURNAROUND TIME IS 75 DAYS

ACTUAL LABO TURNAROUND TIME IS 14 DAYS ACTUAL REPORT TURNAROUND TIME IS 16 DAYS

SAMP. NO.	QCC	M	DESCRIPTION	SAMPLE STATUS	# CONT.	CITY	STATE	AIRS/ STORET LOC NO	BEG. DATE	BEG. TIME	END. DATE	END. TIME
001		W	MO. ELECTRIC WORKS-DEPTH 210'	1	2	CAPE GIRARDEAU	MISSOURI		06/04/91	18:00	06/04/91	18:10

TABLE OF CODES

SAMP. NO. = SAMPLE IDENTIFICATION NUMBER
QCC = QUALITY CONTROL SAMPLE/AUDIT CODE
M = MEDIA OF SAMPLE (A=AIR, T=TISSUE, H=HAZARDOUS MATERIAL, S=SEDIMENT/SOIL, W=WATER)
AIRS/STORET LOC. NO. = A SAMPLING SITE LOCATION IDENTIFICATION NUMBER
BEG. DATE = THE DATE SAMPLING WAS STARTED
BEG. TIME = THE TIME SAMPLING WAS STARTED
END. DATE = THE DATE SAMPLING WAS ENDED
END. TIME = THE TIME SAMPLING WAS STOPPED
A = RESERVED
B = RESERVED
PES = PESTICIDES BY CONTRACT
= DIOXINS/FURANS BY EPA
E = EXPLOSIVES BY CONTRACT
FLD = FIELD MEASUREMENTS BY EPA
G = MINERALS & DISSOLVED MATERIALS BY EPA
HER = HERBICIDES BY EPA
I = ION CHROMATOGRAPHY ANALYSES BY EPA
MC = METALS BY CONTRACT
BNC = BASE NEUTRALS BY CONTRACT
L = FISH PHYSICAL DATA BY EPA
MET = METALS BY EPA
N = FISH TISSUE PARAMETERS BY EPA
VC = VOLATILES BY CONTRACT
P = PESTICIDES BY EPA
Q = FLASH POINT ANALYSES BY EPA
R = RESERVED
BN = SEMIVOLATILE BY EPA
T = CYANIDE PHENOL BY EPA
U = RESERVED
VOA = VOLATILE ORGANICS BY EPA
HC = HERBICIDES BY CONTRACT
X = RESERVED
Y = RESERVED
TRK = ACTIVITY TRACKING PARAMETERS BY EPA

STORET DETECTION IDENTIFIERS
BLANK = NO REMARKS
J = DATA REPORTED BUT NOT VALID BY APPROVED QC PROCEDURES
I = INVALID SAMPLE/DATA - VALUE NOT REPORTED
U = LESS THAN (MEASUREMENT DETECTION LIMIT)
M = DETECTED BUT BELOW THE LEVEL FOR ACCURATE QUANTIFICATION
O = PARAMETER NOT ANALYZED

CONTRACTOR/ IN HOUSE / FIELD MEDIA GROUPS

FIELD	= * * * =	AF,HF,SF,TF,WF,ZZ
CONTRACTOR	= * =	HA,HC,HJ,HK,HO,SC,SJ,SK,SO,SW,TC,TJ, TK,TO,TW,WA,WC,WE,WJ,WK,WO,WW
IN HOUSE	= * =	ALL OTHERS

QUALITY CONTROL AUDIT CODES
A = TRUE VALUE FOR CALIBRATION STANDARD
B = CONCENTRATION RESULTING FROM DUPLICATE LAB SPIKE
C = MEASURED VALUE FOR CALIBRATION STANDARD
D = MEASURED VALUE FOR FIELD DUPLICATE
F = MEASURED VALUE FOR FIELD BLANK
G = MEASURED VALUE FOR METHOD STANDARD
H = TRUE VALUE FOR METHOD STANDARD
K = CONCENTRATION RESULTING FROM DUPLICATE FIELD SPIKE
L = MEASURED VALUE FOR LAB DUPLICATE
M = MEASURED VALUE FOR LAB BLANK
N = MEASURED VALUE FOR DUPLICATE FIELD SPIKE
P = MEASURED VALUE FOR PERFORMANCE STANDARD
R = CONCENTRATION RESULTING FROM LAB SPIKE
S = MEASURED VALUE FOR LAB SPIKE
T = TRUE VALUE OF PERFORMANCE STANDARD
W = MEASURED VALUE FOR DUPLICATE LAB SPIKE
Y = MEASURED VALUE FOR FIELD SPIKE
Z = CONCENTRATION RESULTING FROM FIELD SPIKE

MEDIA CODES
A = AIR
T = BIOLOGICAL (PLANT & ANIMAL) TISSUE
H = HAZARDOUS MATERIALS/MAN MADE PRODUCTS
S = SEDIMENT, SLUDGE & SOIL
W = WATER

UNITS
NA = NOT APPLICABLE
PG = PICOGRAMS (1 X 10-12 GRAMS)
NG = NANOGRAMS (1 X 10-9 GRAMS)
UG = MICROGRAMS (1 X 10-6 GRAMS)
MG = MILLIGRAMS (1 X 10-3 GRAMS)
M3 = METER CUBED
MPH = MILES PER HOUR
SCM = STANDARD (1 ATM, 25 C) CUBIC METER
KG = KILOGRAM
L = LITER
C = CENTIGRADE DEGREES
SU = STANDARD (PH) UNITS
# = NUMBER
LB = POUNDS
IN = INCHES
M/F = MALE/FEMALE
M2 = SQUARE METER
I.D. = SPECIES IDENTIFICATION
GPM = GALLONS PER MINUTE
CFS = CUBIC FEET PER SECOND
MGD = MILLION GALLONS PER DAY
1000G= FLOW, 1000 GALLONS PER COMPOSITE
UMHOS= CONDUCTIVITY UNITS (1/OHMS)
NTU = TURBIDITY UNITS
PC/L = PICO (1 X 10-12) CURRIES PER LITER
MV = MILLIVOLT
SQ FT= SQUARE FEET
P/CM2= PICOGRAMS PER SQ. CENTIMETER
U/CM2= MICROGRAMS PER SQ. CENTIMETER

ANALYSIS REQUEST DETAIL REPORT ACTIVITY: 1-CS46R VALIDATED DATA

COMPOUND	UNITS	001					
WP17 PCB-1016	UG/L	5.0	U				
WP18 PCB-1221	UG/L	5.0	U				
WP19 PCB-1232	UG/L	5.0	U				
WP20 PCB-1242	UG/L	5.0	U				
WP21 PCB-1248	UG/L	5.0	U				
WP22 PCB-1254	UG/L	10	U				
WP23 PCB-1260	UG/L	49	J				
WS01 PHENOL	UG/L	N/A	I				
WS03 ETHER, BIS(2-CHLOROETHYL), BY GC/MS	UG/L	12	U				
WS04 2-CHLOROPHENOL	UG/L	N/A	I				
WS05 1,3-DICHLOROBENZENE	UG/L	12	U				
WS06 1,4-DICHLOROBENZENE	UG/L	14					
WS07 BENZYL ALCOHOL	UG/L	12	U				
WS08 1,2-DICHLOROBENZENE	UG/L	12	U				
WS09 2-METHYLPHENOL (O-CRESOL)	UG/L	N/A	I				
WS10 ETHER, BIS(2-CHLOROISOPROPYL), BY GC/MS	UG/L	12	U				
WS11 4-METHYLPHENOL (P-CRESOL)	UG/L	N/A	I				
WS12 N-NITROSO-DIPROPYLAMINE	UG/L	12	U				
WS13 HEXACHLOROETHANE	UG/L	12	U				
WS14 NITROBENZENE	UG/L	12	U				
WS15 ISOPHORONE	UG/L	12	U				
WS16 2-NITROPHENOL	UG/L	N/A	I				
WS17 2,4-DIMETHYLPHENOL	UG/L	N/A	I				
WS18 BENZOIC ACID, BY GC/MS	UG/L	N/A	I				
WS19 METHANE, BIS(2-CHLOROETHYOXY), BY GC/MS	UG/L	12	U				
WS20 2,4-DICHLOROPHENOL	UG/L	N/A	I				

ANALYSIS REQUEST DETAIL REPORT ACTIVITY: 1-CS46R VALIDATED DATA

COMPOUND	UNITS	001					
WS21 1,2,4-TRICHLOROBENZENE	UG/L	17					
WS22 NAPHTHALENE	UG/L	12	U				
WS23 4-CHLOROANILINE	UG/L	12	U				
WS24 HEXACHLOROBUTADIENE	UG/L	12	U				
WS25 4-CHLORO-3-METHYLPHENOL	UG/L	N/A	I				
WS26 2-METHYLNAPHTHALENE	UG/L	12	U				
WS27 HEXACHLOROCYCLOPENTADIENE	UG/L	12	U				
WS28 2,4,6-TRICHLOROPHENOL	UG/L	N/A	I				
WS29 2,4,5-TRICHLOROPHENOL	UG/L	N/A	I				
WS30 2-CHLORONAPHTHALENE	UG/L	12	U				
WS31 2-NITROANILINE (ORTHO NITROANILINE)	UG/L	62	U				
WS32 PHTHALATE, DIMETHYL, BY GC/MS	UG/L	12	U				
WS33 ACENAPHTHYLENE, BY GC/MS	UG/L	12	U				
WS34 3-NITROANILINE	UG/L	N/A	I				
WS35 ACENAPHTHENE, BY GC/MS	UG/L	12	U				
WS36 2,4-DINITROPHENOL	UG/L	N/A	I				
WS37 4-NITROPHENOL	UG/L	N/A	I				
WS38 DIBENZOFURAN	UG/L	12	U				
WS39 2,4-DINITROTOLUENE	UG/L	12	U				
WS40 2,6-DINITROTOLUENE	UG/L	12	U				
WS41 PHTHALATE, DIETHYL, BY GC/MS	UG/L	12	U				
WS42 4-CHLOROPHENYL PHENYL ETHER	UG/L	12	U				
WS43 FLUORENE	UG/L	12	U				
WS44 4-NITROANILINE	UG/L	62	U				
WS45 4,6-DINITRO-2-METHYLPHENOL	UG/L	N/A	I				
WS46 N-NITROSODIPHENYLAMINE	UG/L	12	U				

ANALYSIS REQUEST DETAIL REPORT ACTIVITY: 1-CS46R VALIDATED DATA

COMPOUND	UNITS	001					
WS47 4-BROMOPHENYL PHENYL ETHER	UG/L	12	U				
WS48 HEXACHLOROBENZENE	UG/L	12	U				
WS49 PENTACHLOROPHENOL	UG/L	N/A	I				
WS50 PHENANTHRENE	UG/L	12	U				
WS51 ANTHRACENE, BY GC/MS	UG/L	12	U				
WS52 PHTHALATE, DI-N-BUTYL-, BY GC/MS	UG/L	12	U				
WS53 FLUORANTHENE	UG/L	12	U				
WS54 PYRENE	UG/L	12	U				
WS55 PHTHALATE, BUTYL BENZYL	UG/L	12	U				
WS56 3,3'-DICHLOROBENZIDINE	UG/L	N/A	I				
WS57 ANTHRACENE, BENZO(A), BY GC/MS	UG/L	12	U				
WS58 PHTHALATE, BIS(2-ETHYLHEXYL), BY GC/MS	UG/L	12	U				
WS59 CHRYSENE, BY GC/MS	UG/L	12	U				
WS60 PHTHALATE, DI-N-OCTYL-, BY GC/MS	UG/L	12	U				
WS61 FLUORANTHENE, BENZO(B), BY GC/MS	UG/L	12	U				
WS62 FLUORANTHENE, BENZSO(K), BY GC/MS	UG/L	12	U				
WS63 PYRENE, BENZO(A), BY GC/MS	UG/L	12	U				
WS64 INDENO(1,2,3-CD)PYRENE	UG/L	12	U				
WS65 ANTHRACENE, DIBENZO(A,H), BY GC/MS	UG/L	12	U				
WS66 PERYLENE, BENZO(G,H,I), BY GC/MS	UG/L	12	U				
WS67 CARBAZOLE	UG/L	NA	O				
WV03 CHLOROMETHANE, BY GC/MS	UG/L	10	U				
WV04 BROMOMETHANE, BY GC/MS	UG/L	10	U				
WV05 VINYL CHLORIDE	UG/L	10	U				
WV06 CHLOROETHANE, BY GC/MS	UG/L	10	U				
WV07 METHYLENE CHLORIDE	UG/L	5.0	U				

ANALYSIS REQUEST DETAIL REPORT ACTIVITY: 1-CS46R VALIDATED DATA

COMPOUND	UNITS	001					
WV08 1,1-DICHLOROETHENE	UG/L	5.0	U				
WV09 1,1-DICHLOROETHANE	UG/L	5.0	U				
WV10 1,2-DICHLOROETHENE, TOTAL	UG/L	9.8					
WV11 CHLOROFORM, BY GC/MS	UG/L	5.0	U				
WV12 1,2-DICHLOROETHANE	UG/L	5.0	U				
WV13 1,1,1-TRICHLOROETHANE	UG/L	5.0	U				
WV14 CARBON TETRACHLORIDE, BY GC/MS	UG/L	5.0	U				
WV15 BROMODICHLOROMETHANE, BY GC/MS	UG/L	5.0	U				
WV16 1,2-DICHLOROPROPANE	UG/L	5.0	U				
WV17 BENZENE, BY GC/MS	UG/L	5.0	U				
WV19 TRICHLOROETHENE	UG/L	5.1					
WV20 DICHLOROPROPENE, CIS-1,3-, BY GC/MS	UG/L	5.0	U				
WV21 DIBROMOCHLOROMETHANE, BY GC/MS	UG/L	5.0	U				
WV22 1,1,2-TRICHLOROETHANE	UG/L	5.0	U				
WV24 BROMOFORM, BY GC/MS	UG/L	5.0	U				
WV25 TETRACHLOROETHENE	UG/L	5.0	U				
WV26 TOLUENE	UG/L	5.0	U				
WV27 1,1,2,2-TETRACHLOROETHANE	UG/L	5.0	U				
WV28 CHLOROBENZENE, BY GC/MS	UG/L	6.3					
WV29 ETHYL BENZENE	UG/L	5.0	U				
WV30 ACETONE, BY GC/MS	UG/L	10	U				
WV31 CARBON DISULFIDE, BY GC/MS	UG/L	5.0	U				
WV32 2-BUTANONE	UG/L	10	U				
WV33 VINYL ACETATE	UG/L	10	U				
WV34 2-HEXANONE	UG/L	10	U				
WV35 4-METHYL-2-PENTANONE	UG/L	10	U				

ANALYSIS REQUEST DETAIL REPORT ACTIVITY: 1-CS46R VALIDATED DATA

COMPOUND	UNITS	001					
WV36 STYRENE	UG/L	5.0	U				
WV37 XYLENES, TOTAL	UG/L	5.0	U				
WV40 TRANS-1,3-DICHLOROPROPENE	UG/L	5.0	U				
ZZ01 SAMPLE NUMBER	NA	001					
ZZ02 ACTIVITY CODE	NA	CS46R					